

INTERNATIONAL ATOMIC ENERGY AGENCY

TECHNICAL MEETING "ADVANCED FUEL PELLET MATERIALS AND FUEL ROD DESIGNS FOR WATER COOLED REACTORS"

23-26 November 2009 PSI, Villigen, Switzerland

AGENDA

Monday November 23, 2009				
Opening Session Meeting Chair: Mr. Tony Williams, Axpo, Switzerland				
09:00 – 09:10	Opening	Mr. V. Inozemtsev IAEA		
09:10 – 09:30	Welcome Addresses	Mr. T. Williams, Axpo and Mr. J. M. Cavedon, PSI		
09:30 – 10:00	IAEA Presentation "Overview of IAEA Activities in the Area of Advanced Fuels for Water Cooled Reactors"	Mr. V. Inozemtsev IAEA		
Fabrication and Design Session Session Chair: Mr. Hubert Bairiot, FEX, Belgium				
10:00 – 10:45	FD1: "Innovative Process Techniques to Optimize Quality and Microstructure of UO ₂ Fuel for PHWRs in India"	Mr. D. Pramanik NFC, India		
10:45 – 11:15	Coffee Break			
11:15 – 12:00	FD2: "Studies on the Sintering Behaviour of UO ₂ -Gd ₂ O ₃ Fuel Pellets"	Mr. M. Durazzo IPEN/CNEN-SP, Brazil		
12:00 – 12:45	FD3: "Evolutionary Design Studies of PHWR Fuel Rods"	Mr. S. Castañiza CNEA, Argentina		
12:45 – 14:00	Lunch			
14:00 – 14:45	FD4: "Application of Probabilistic Methods to Fuel Rod Design Evaluation"	Mr. A. Wensauer AREVA, Germany		
14:45 – 15:30	FD5: "Fuel Assembly Designs for Achieving High Burnups in 220 MWe Indian PHWRs"	Mr. P. N. Prasad NPCIL, India		
15:30 – 16:00	Coffee Break			
16:00 – 16:30	FD6: "Research on Welding Defects of Pressure Resistance Welding for Heavy Water Reactor Fuel Element"	Mr. E. Wang CNNFC, China		
16:30 – 17:00	FD7: "Current Status of R&D of Nuclear Fuel Elements for PWR in Indonesia"	Mr. B. Briyatmoko BATAN, Indonesia		

Tuesday November 24, 2009	
Advanced Fuels Session Session Chair: Mr. Patrick Blanpain, AREVA, France	

09:00 - 09:45	ADV1: "High Burnup UO ₂ Fuel Pellets with Dopants for WWER"	Mr. A. Lysikov TVEL, Russia
09:45 – 10:30	ADV2: "Westinghouse Advanced Doped Pellet – Characteristics and Irradiation Behaviour"	Ms. K. Backman Westinghouse, Sweden
10:30 – 11:00	Coffee Break	
11:00 – 11:45	ADV3: "Washout Behaviour of Cr-dopped UO ₂ and Gd Fuels in LWR Environments"	Ms. C. Delafoy AREVA, France
11:45 – 12:30	ADV4: "Development of Burnable Neutron Absorber BNA Pellets"	Mr. H. Hamilton AECL, Canada
12:30 – 14:00	Lunch	
Innovative Fuel Designs Session Session Chair: Mr. Radu Pomirleanu, Westinghouse, USA		
14:00 – 14:45	INN1: "Zirconia Inert Matrix Fuels for Plutonium and Minor Actinides Burning in Reactors"	Mr. C. Degueldre PSI, Switzerland
14:45 – 15:30	INN2: "Designing a Thorium Fuel Irradiation Experiment"	Mr. J. F. Kelly Norway
15:30 – 16:00	Coffee Break	
16:00 – 17:00	Round-table Discussion on "Regulatory Aspects of Fuel Quality and Reliability Assurance"	
18:00 – 20:00	Dinner on behalf of PSI and I	4 <i>EA</i>

Wednesday November 25, 2009				
Innovative Fuel Designs Session, cont'd Session Chair: Mr. Radu Pomirleanu, Westinghouse, USA				
09:00 - 09:45	INN3: "Current Status of a Development Project on Erbia Credit Super High Burnup Fuel"	Mr. M. Yamasaki NFI, Japan		
09:45 – 10:30	INN4: "Minimization of Inner Diametric Tolerance of Annular Pellet for Dual Cooled Fuel"	Mr. Y.W. Rhee KAERI, Korea		
10:30 – 11:00	Coffee Break			
11:00 – 11:45	INN5: "A New Uncertainty Reduction Method for Fuel Fabrication Process and PWR Cores with Erbia-bearing Fuel"	Mr. T. Sano Kyoto University, Japan		
11:45 – 12:30	INN6: "Investigation of Liquid-metal-bonded Hydride Fuels for LWRs"	Mr. K. A. Terrani Berkeley, USA		
12:30 – 14:00	Lunch			
Closing Session Meeting Chair: Mr. Tony Williams, Axpo, Switzerland				
14:00 – 15:30	Session Chairs Summaries			
15:30 – 16:00	Coffee Break			
16:00 – 17:00	General Discussion, Conclusions and Recommenda	itions		

Thursday November 26, 2009			
Technical Tour to the Swiss Light Source Synchrotron and Hot Laboratory			
09:00 - 10:00	Tour Introduction and Logistics		
12:30	Technical Meeting Adjourn		